Mira & Mira+ Replay System • Software Release Notes

Welcome to the Mira and Mira+ V8.3.1 Software Release Notes. Please read this document to find important information on areas of Mira and Mira+ that may not be covered in the Getting Started Guide or the User Help system.

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VERSION HISTORY

VERSION 8.3.1 – AUGUST 2022

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

No New Features

BUGS FIXED • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Mira Replay app: PL-EDIT Mode CUT operation that deletes all Playlist items causes Mira Replay & Mira Explorer app crash**

   Fixed Bug: When a CUT operation is performed on a Playlist during PL-EDIT mode, and all items in the Playlist are deleted, the Mira Replay and Mira Explorer apps both close / crash.

2. **Mira Replay app: PL-EDIT Mode CUT operation on 1st Playlist item causes last Playlist item to be replaced with duplicate of penultimate Playlist item**

   Fixed Bug: When a CUT operation is performed on the 1st item in a Playlist during PL-EDIT mode, the last item in the Playlist is replaced with a duplicate of the penultimate playlist item.

3. **Mira Replay app: PL-EDIT Mode "SHIFT+SK-9" (PASTE ▲) operation broken**

   Fixed Bug: The **PASTE ▲** function did not function at all.

4. **Mira Replay app: Applying a Replay Event Template to a New Replay Event will not apply stored "Playlists with Server Clips"**

   Fixed Bug: Applying a Replay Event Template with stored Playlists containing Server Clips would not apply the Playlists to the New Replay Event.

5. **Mira Replay App: Broken Playlist AUX Audio**

   Fixed Bug: When a Playlist is aired with AUX audio enabled, the main audio from SDI Output would be a mix of AUX Audio and the Audio from the video portion of the Playlist (when it should be only AUX Audio). Also, when monitored from Mira Control Surface headphone output, only the Audio from the video portion of the Playlist is heard (when it should be only AUX Audio).

6. **Mira Replay App: Distorted Headphone Audio from Mira Control Surface panel**

   Fixed Bug: Intermittent issue caused severe distortion in Headphone audio from Mira Control Surface panel.

7. **Mira Replay App: During 2-PGM Playlist AIR (PVW>PGM), Headphone Audio from Mira Control Surface panel is not heard on *every other* Playlist Item**

    Fixed Bug: Headphone audio from Mira Control Surface panel was present only on every other Playlist item.

8. **Mira Explorer app: Unable to re-arrange items in Playlist while Playlist Editor is active**

    Fixed Bug: Applies to the Playlist Editor in the Mira Explorer application only; items could not be rearranged with drag-and-drop operation.

VERSION 8.3.0 – JUNE 2022

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Mira Explorer app: Search now 'Auto-Expands' Folder(s) with matching clips/playlists/sub-folders**

    When searching for text in Mira Explorer, the Clip Library now automatically expands any folder containing matching clips, playlists, and sub-folders.

2. **Mira Replay app: Short-Cut to change Play List # from Play List Library**

    In the Mira Replay app, while `PL` `EDIT` mode is active in **PGM Player**, press and hold down the `PLAY LIST` button, then tap the ▲ / ▼ buttons on Mira Control Surface to change to a new Play List # from the Play List Library.

3. **Mira Replay app: Replay Event Name now displayed in Window Title Bar**

    The Replay Event Name is now displayed in the Mira Replay app window within the Title Bar at the very top of the window.

4. **Mira Replay app: Tagged Team Name displayed on Tag Softkey label**

    Within the Mira Replay app, when a "team name" is assigned to the Tag function, that "team name" is now displayed on the Tag Softeky label on SK-8 and SK-9.

BUGS FIXED • (MIRA & MIRA+ REPLAY SYSTEMS)

9. **System: Corrupted audio output while operating in video standards with 29.97Hz frame rate**

    Fixed issue of corrupted audio playback in the embedded and AES audio outputs while operating the video server in a video standard with the 29.97Hz frame rate.

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10. **System: Audio-Video timing error while operating in video standards with frame rates below 30Hz**

    Fixed issue of audio-video timing error during clip playback while operating the video server in a video standard with the frame rates below 30Hz.

11. **System: Clips created in Video Standards with frame rates below 30Hz would display incorrect timecode**

    This bug is now fixed.

12. **System: Functional hang-up after deleting .clip files via Mira Explorer app and via remote control interfaces.**

    In rare cases under very particular conditions, deleting a .clip file via the Mira Explorer app or from remote control interfaces would then cause the controlling app to "functionally hang"; the only remedy was to quit and re-start the controlling app. This bug is now fixed.

13. **Mira Explorer / Mira Replay apps: Export of .clip Files stored on Drive Volumes other than "H:\Video"**

    Fixed issue where the Mira Explorer and Mira Replay applications would not export content from ".clip" files stored on drive volumes other than "H:\".

14. **Mira Explorer app: Playlists containing "missing items" now skips those items**

    When a Playlist contains "missing items" (items in which the underlying clip files were either re-named, deleted, or moved to another folder), the Playlist playout would halt on the missing item(s). This bug is now fixed.

15. **Mira Import app: Failure to 'close' MXF media file after import during "native" codec import**

    This bug would leave the source MXF media files "open" from the file system point of view, preventing other applications from moving, deleting, re-naming, or otherwise altering the source media files after they were imported. This bug is now fixed.

16. **Mira Replay app: Entry Field text when navigating to/from Play List Library**

    Any text in the Entry Field within the Mira Replay app window is now cleared when using the softkeys to navigate to or from the Play List Library.

VERSION 8.2.4 – JUNE 2022

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **System: Windows Security Patch**
   Added work-around security patch for Microsoft Windows CVE-2022-30190.

VERSION 8.2.3 – (VERSION NUMBERS SKIPPED)

This version number was skipped.

VERSION 8.2.2 – FEBRUARY 2022

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **System: New Video Standard Frame Rates**
   (Mira & Mira+ with AVC-Intra Hardware Only)
   These new frame rates were added to the **1080p** video standard:

   1080p60 ("True 60p") | 1080p30 | 1080p29.97 | 1080p25 | 1080p24 | 1080p23.98

2. **System: Timecode Chase Input**
   Changed Timecode Chase feature to use 'stereo audio input' on computer motherboard instead of 'mono audio input' to allow Timecode Chase to work on legacy motherboards.

3. **Mira Replay app: Tags Feature**
   Added new functionality to Mira Replay app to allow metadata tags to be applied and saved with Clip Register clipped content, and exported as a 'sidecar' XML file when clip content is exported from a Clip Register.

4. **System: "As Run Log" Report Generator app**
   Added this new feature to filter, display, and generate a PDF or CSV file of media clips that have been played in any video channel for up to the previous 90 days.

5. **System: RossTalk RECEIVE Commands**
   Added new feature to support RossTalk protocol "receive" commands via Ethernet to control video channels in the Mira replay system.

6. **System: VANC record and play in 720p & 1080p video standards**
   (Mira & Mira+ with AVC-Intra Hardware Only)
   Expanded the ability for record and playback of VANC data contained within the SDI video I/O pathways **in 720p and 1080p video standards**—so VANC data such as closed-captioning, HDR flags, etc. are preserved during base-band record and playback on the SDI video I/O pathways.

7. **Mira Import app: Updated MXF Media File Libraries to latest version**
   These updated MXF libraries improves handling of MXF media files during Import and Export operations when the MXF contains native video codec essence.

BUGS FIXED • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Mira Replay App: Rare Crash**
   Fixed an issue where the Mira Replay application would sometimes crash on very rare occasions.

2. **Mira Explorer app: "Create Child Clip" from non-existant angles in a multi-angle .clip file**
    Angles that were not present in the .clip file would be offered for creating a Child clip. These angles are now dimmed and unselectable in the pop-up menu that appears when you right-click on this .clip file and select > "Create child clip from angle".

3. **System: Erroneous Error Messages about assigning RS422 to a Video Channel**
    Fixed an issue in which erroneous error messages would appear asking the User to assign an RS422 port to a video channel.

4. **Mira Import app: Media Files Imported with "Frame of Black" at Start or End of .clip file**
    Fixed an issue with the Media File Import app (using FFmpeg libraries) when importing certain content that caused a frame of Black to be included at either the start or end of the imported .clip file.

5. **Mira Import app: Media Files Imported with "Audio Glitches" in .clip file**
    Fixed an issue that caused "audio glitches" when importing media files containing audio with a 44.1kHz sample rate.

6. **Mira Import app: Media Files Imported with Incorrect Aspect Ratio**
    Fixed an issue with the Media File Import app (using FFmpeg libraries) when importing media files with an aspect ratio different from the currently active video standard. The File Import app now anchors video into upper-left corner, instead of resizing it.

7. **System: AMP Protocol – Root folder now called "Default" in command replies**
    Some external third-party applications require this exact name for the 'root folder' (a.k.a. "H:\Video" folder) in order to function properly.

8. **System: AMP Protocol – Received Command "No Reply"**
    Fixed an issue where received AMP protocol commands sometimes resulted in 'no reply' to the external controlling device.

9. **System: AMP Protocol – Record Cue Command when used with 'long' clip name**
    Fixed an issue where the AMP protocol RECORD_CUE command would fail when a 'long' clip name was specified with the command.

VERSION 7.1.19 THRU 8.2.1– (VERSION NUMBERS SKIPPED)

These version number series were skipped.

VERSION 7.1.18 – JULY 2021

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

No New Features.

BUG FIXES • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Embedded Timecode Out Missing in Quad Link SDI video streams while operating in UHD-4K video standard**
   (Mira & Mira+ with AVC-Intra Hardware Only)
   Repaired the missing timecode out (fixed on "second and third video boards" ChE-ChL).

VERSION 7.1.17 – JULY 2021

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

No New Features.

BUG FIXES • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Embedded Timecode Out Missing in Quad Link SDI video streams while operating in UHD-4K video standard**
   (Mira & Mira+ with AVC-Intra Hardware Only)
   Repaired the missing timecode out (but fixed only on "first video board" ChA-ChD).

VERSION 7.1.16 – JUNE 2021

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Firmware Update to support HDR VPID metadata in UHD-4K Video Standards (Mira & Mira+ with AVC-Intra Hardware Only)**
   Specific FPGA firmware update to add HDR VPID metadata on the SDI video I/Os during UHD-4K video standard operation. This applies specifically to the "Quad-Link" 3G SDI I/Os only.

BUG FIXES • (MIRA & MIRA+ REPLAY SYSTEMS)

No Bug Fixes.

VERSION 7.1.15 – MAY 2021

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **VANC record and play in 1080i video standards
(Mira & Mira+ with AVC-Intra Hardware Only)**
Added ability for record and playback of VANC data contained within the SDI video I/O pathways **in 1080i video standards**—so VANC data such as closed-captioning, HDR flags, etc. are preserved during base-band record and playback on the SDI video I/O pathways.

BUG FIXES • (MIRA & MIRA+ REPLAY SYSTEMS)

No Bug Fixes.

VERSION 7.1.14 – APRIL 2021

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

No New Features.

BUG FIXES • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Quad Viewer SDI OUT Display**
Fixed an issue where data overlaid onto the Quad Viewer SDI Output (i.e. Clip Name and Timecode) would not appear.

   This bug was introduced in V7.1.13 software.

VERSION 7.1.13 – NOVEMBER 2020

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Piero Broadcast Integration with Mira Replay systems**
Added integration of Ross PIERO sports graphics analysis system (Broadcast edition) with all Mira replay systems.

2. **Default Softkey Label Toggle in Mira Replay App**
Changed default softkey menu for Mira Control Surface when entering Playlist Edit mode—so camera angles are now presented first.

   o Double-tap **SHIFT** button (on either Mira Control Surface or QWERTY Keyboard) to switch to Playlist editing softkeys. Tap again to return to Camera-select softkeys.

BUGS FIXED • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Video Server Products with AVC-Intra Video Hardware Initialization Error**
   (Mira & Mira+ with AVC-Intra Hardware Only)
   Fixed rare issue in which AVC-Intra video hardware that would *sometimes* not initialize
   at O/S restart and/or at power-on, resulting in 'no video channels'.

VERSION 7.1.12 – SEPTEMBER 2020

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

No New Features.

BUGS FIXED • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Media File Import App Compatibility Fixes**
   Improved compatibility of certain media files codecs and wrappers during media file
   import transcoding while using the FFmpeg codec libraries.

VERSION 7.1.11 – AUGUST 2020

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

No New Features.

BUGS FIXED • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Unresponsive Mira Control Surface panel**
   Corrected an issue which could cause Mira Control Surface control panel to become
   unresponsive after 2 to 3 hours (*or more*) of continuous operation.

2. **Mira Control Surface Jog control Playback Error**
   Corrected very rare JOG playback issue: When Rotary Dial stops spinning, the PGM
   playout channel sometimes would not stop playing.

VERSION 7.1.7 THROUGH VERSION 7.1.10

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

No New Features.

These release version numbers were only for **Tria News** & **Mira Express**.

BUGS FIXED • (MIRA & MIRA+ REPLAY SYSTEMS)

No Bug Fixes.

These release version numbers were only for **Tria News** & **Mira Express**.

VERSION 7.1.6 – AUGUST 2020

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

No New Features.

BUGS FIXED • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **6-Channel / 8-Channel Licensing bug in Mira+ fitted with DVCPRO-HD Hardware**
Affected no customers in field. Solved a factory build issue for **Mira+** only.

VERSION 7.1.5 – NOVEMBER 2019

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

No New Features.

BUGS FIXED • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Fix for new Xilinx part used on AVC-Intra video boards in Mira and Tria platforms (Mira & Mira+ with AVC-Intra Hardware Only)**
Xilinx changed something subtle in the newest fab of their chips, which in turn could sometimes cause 'green artifacts' on some SDI video outputs.

VERSION 7.1.4 – NOVEMBER 2019

NEW FEATURES • (MIRA & MIRA+ REPLAY SYSTEMS)

No New Features.

BUGS FIXED • (MIRA & MIRA+ REPLAY SYSTEMS)

No Bug Fixes.

VERSION 7.1.3 – OCTOBER 2019

NEW FEATURES –MIRA REPLAY SYSTEMS

No New Features.

BUGS FIXED • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **Import of ANC data from MXF media files while operating in 59.94 frame-rate video standards**
   (Mira & Mira+ with AVC-Intra Hardware Only)
   Corrected an issue when MXF media files were imported, ANC data present in the media file header were not imported.

KNOWN ISSUES

VERSION 8.3.0 – JUNE 2022

No known issues.

VERSION 8.2.2 – FEBRUARY 2022

1. **Missing Video Panes in DashBoard**
   Video panes will not appear in a DashBoard panel running on the Mira replay video server itself.

VERSION 7.1.14 – APRIL 2021

(MIRA & MIRA+ REPLAY SYSTEMS)

1. Embedded timecode of a clip may not appear within the SDI video output stream.
   (Issue resolved in V7.1.15 software release)

GETTING HELP

- Ross Online Mira/Mira+ Help on the Web: [Mira/Mira+ Online Help](#)

- Ross Support on the Web: https://support.rossvideo.com/hc/en-us

- Our 24-hour hotline service provides access to technical expertise around the clock. After-sales service and technical support is provided directly by Ross Video personnel...

  - **During business hours (Eastern Standard Time):**

    Ross Technical Support personnel are available by telephone:

    - **Technical Support: (+1) 613-652-4886**

    - **After Hours Emergency: (+1) 613-349-0006**

  - **After hours and on weekends:**

    Emergency technical support is available. A telephone-answering device will provide the names and phone numbers of technical support and field service personnel who are on call. Ross staff are available to react to any problem and to do whatever is necessary to ensure customer satisfaction.

  - **Serious issues needing urgent attention and tracking:**

    Please ensure you are given a ticket number and refer to this number in follow-up communications.